



# BIOLOGY

## BOOKS - MBD

### Set III

#### Example

1. Louis pasteur demonstrated that

A. early life came from outer space

B. non-living chemicals produced living molecules

C. life comes from pre-existing life

D. life originated spontaneously

**Answer:**



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2. Name one airborne and a waterborne disease in humans. List one specific symptom of each one of them.



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3. State what are Mendelian disorders. Both thalassemia and colour blindness are categorised as Mendelian disorders. Justify.



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4. Write the palindromic nucleotide sequence *EcoR*<sub>1</sub> recognises.



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5. Draw the vector DNA and a foreign DNA showing the sites where EcoRI has acted to form the sticky ends.



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6. Name the enzyme that helps in forming recombinant DNA.



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7. Rearrange the following in the correct order of their appearance on Earth between two million years and 40,000 years back

Neanderthals, Australopithecus, Homo erectus and Homo habilis.



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8. Which one of the above had the largest brain size?



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**9.** Which one of the above  
ate fruits?



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**10.** Explain Mendel's law of segregation with  
the help of a monohybrid cross.



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**11.** Describe the process of double fertilisation in angiosperms.



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**12.** Trace the development of polyploidal cell that is formed after double fertilisation in a non-albuminous seed and albuminous seed.



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**13.** List any two reasons other than physical congenital disorders for causing infertility in couples.



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**14.** Explain how IVF as a technique helped childless couples in having children .



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**15. Explain:**

the term GIFT and ICSI



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